Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Improvements to Roads and Drains at Kamakshamma Layout main and cross roads in Chowdeshwari ward no 02

					Estimate Cost Rs.			24.00 Lakhs	
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Earthwork in execavation for foundation of structure like culverts, retaining wall etc., as per drawing and technical specification, including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of balance earth as per specification, including cost of labour, HOM etc., complete. In all kinds of soil by manual means. (P.No.256, I.No.34.15.1 of PW,P&IWTD S.R 2018-19)								
	Basic rate	180.00							
	Area weightage 6%	10.80							
	Sub total	190.80							
	Lead 10 km	**82.60**							
	Total	**273.40**							
	For Drain								
	Kamakshamma Layout								
	1st main road	1	109.00	1.00	0.90	98.10			
	Cross road 1	1	29.00	1.00	0.90	26.10			
	Cross road 2	1	135.00	1.00	0.90	121.50			
						245.70	**Cum**	**273.40**	**67,174.38**
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications, MORTH specifications No. 408, (P.No.13, I.No.4-1.2 of PW,P&IWTD S.R 2018-19)								
	Basic rate	5194.00							
	Area weightage 6%	311.64							
	Total	**5505.64**							
	For Drain								
	Kamakshamma Layout								
	1st main road	1	109.00	1.00	0.15	16.35			
	Cross road 1	1	29.00	1.00	0.15	4.35			
	Cross road 2	1	135.00	1.00	0.15	20.25			
						40.95	**Cum**	**5505.64**	**225455.96**
3	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (P.No.14, I.No.4.11 of PW, P&IWTD S.R 2018-19)								
	Basic rate	5659.00							
	Area weightage 6%	339.54							
	Total	5998.54							
	For Drain								

	Kamakshamma Layout								
	Raft								
	1st main road	1	109.00	0.90	0.15	14.72			
	Cross road 1	1	29.00	0.90	0.15	3.92			
	Cross road 2	1	135.00	0.90	0.15	18.23			
	Wall								
	1st main road	2	109.00	0.15	0.60	19.62			
	Cross road 1	2	29.00	0.15	0.60	5.22			
	Cross road 2	2	135.00	0.15	0.60	24.30			
						86.00	**Cum**	**5998.54**	**515844.45**
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (I No-4.31,P No-15)								
	Basic rate	358.00							
	Area weightage 6%	21.48							
	Total	**379.48**							
	For Drain								
	Kamakshamma Layout								
	1st main road	4	109.00		0.60	261.60			
	Cross road 1	4	29.00		0.60	69.60			
	Cross road 2	4	135.00		0.60	324.00			
						655.20	**Sqm**	**379.48**	**248635.30**
5	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Basic rate	69804.00							
	Area weightage 6%	4188.24							
	Total	**73992.24**							
	For Drain								
	60Kg/Cum of Concrete		86.00	60.00		5.16			
						5.16	**Tn**	**73992.24**	**381777.76**
6	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Data rate	2337.00							
	For Drain								
	Kamakshamma Layout								
	1st main road	1	109.00	0.90		98.10			
	Cross road 1	1	29.00	0.90		26.10			
	Cross road 2	1	134.50	0.90		121.05			
						245.25	**Sqm**	**2337.00**	**573149.25**

7	Providing and Fixing pre cast covering Slab 250mm thick made out of CC M25 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Kamakshamma Layout								
	Culvert	4	5.00	1.20		24.00			
						24.00	**Sqm**	**5418.00**	**130032.00**
								Total Construction Cost	**2142069.10**
								12% GST	**257048.29**
								Sub Total	**2399117.39**
								Miscellaneous & Rounding off	**882.61**
								GRAND TOTAL	**2400000.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019 and Data Rates

Assistant Engineer
Ward No-02
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

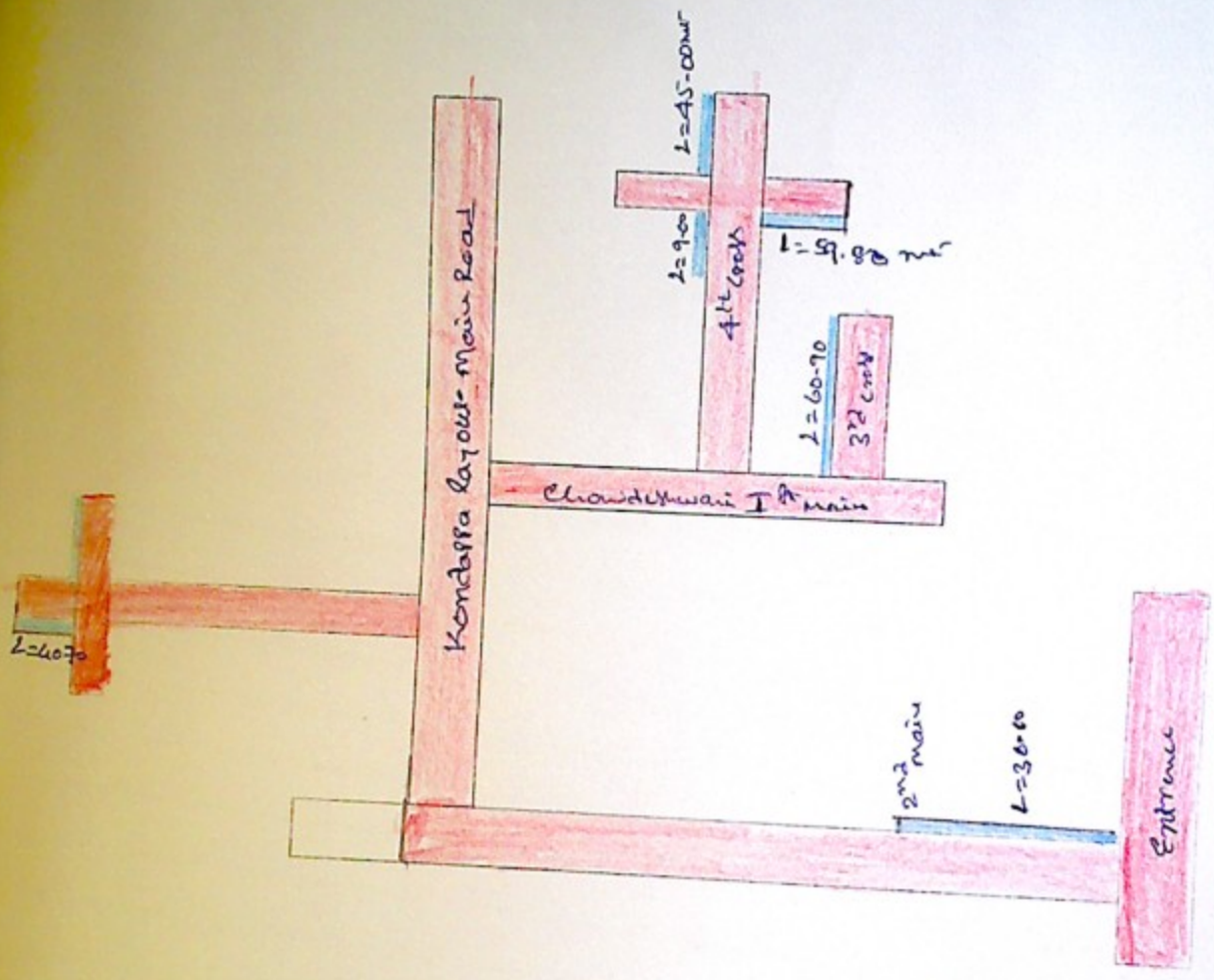
Administrative Approval
Accorded For ...R:24.00 L...
Head of A/C.....P:1771
CER NO :...20A... Dt:25-2-19

TA CE (YNK)

Technical Sanction
Accorded For R:24.00 L
Head of A/C.....P:1771
CER NO :...208... Dt:25-02-19

TA CE (YNK)

Name of work : Improvements to roads and drains at Kamakshamma layout main roads and cross roads in chowdeshwari ward no -02 of yelahanka Sub division



INDEX:

R-C-C-Drain

A.E.

A.E.E.

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore